



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231
www.uspto.gov

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 09/428,813 | 10/28/1999 | SAMI INKINEN | 297-008970-U | 5161 |

7590

11/29/2002

CLARENCE A GREEN CLARENCE A GREEN
PERMAN & GREEN
425 POST ROAD
FAIRFIELD, CO 06430

EXAMINER

KUMAR, PANKAJ

ART UNIT

PAPER NUMBER

2631

DATE MAILED: 11/29/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/428,813

Applicant(s)

INKINEN ET AL.

Examiner

Pankaj Kumar

Art Unit

2631

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 28 October 1999.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-12 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-5 and 8-12 is/are rejected.
- 7) ☒ Claim(s) 6 and 7 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☒ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4, 5.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

DETAILED ACTION

Oath/Declaration

1. The oath or declaration is defective. A new oath or declaration in compliance with 37 CFR 1.67(a) identifying this application by application number and filing date is required. See MPEP §§ 602.01 and 602.02.

The oath or declaration is defective because:

- a) Non-initialed and/or non-dated alterations have been made to the oath or declaration. See 37 CFR 1.52(c).
- b) Some of the changes are not readable.

Specification

2. The abstract of the disclosure is objected to because it may be too long. The abstract needs to be less than 150 words. Also, the words 'figure 2' should be removed from the bottom of the abstract. See MPEP § 608.01(b).

Claim Objections

3. Claims 1-12 are objected to because of the following informalities: they need to contain the correct the spelling of characterized. Appropriate correction is required.

Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Art Unit: 2631

5. Claims 4, 10, 11 and 12 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

6. Claims 4, 10, 11, 12 are rejected since LPRF needs to be defined at least in the first occurrence in at least one of the claims as low power radio frequency.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1, 2, 3, 4, 5 and 8 are rejected under 35 U.S.C. 102(e) as being anticipated by Charlton USPN 5929774.

3. As per claim 1, Charlton teaches a method for wireless data communication between a wireless device (Charlton: inherent for there to exist a device which sends a page since it is being received by Charlton's pager), which comprises means for short-range data communication, and an electronic device (Charlton fig. 1), characterised in that the method includes the following method steps: in a general purpose expansion memory location (Charlton fig. 5: 58, col. 6 lines 34 to 35) of the electronic device there is mounted a data communication device having means for short-range wireless data communication; a short-range wireless data communication link between the wireless device and the data communication device is activated; and data is

Art Unit: 2631

transmitted between the data communication device and the wireless device (Charlton: Abstract says it is a pager).

4. As per claim 2, a method according to claim 1, characterised in that in order to enable the data transmission from the electronic device to the wireless device the following method steps are performed after the installation of the data communication device and before the activation of the data communication link: data is input to the electronic device (Charlton: data is input into the pager); and the data is processed in the data communication device installed in an expansion memory location (Charlton: a second Charlton pager can receive a page).

5. As per claim 3, a method according to claim 2, characterised in that the data processing in the data communication device is made by instructions from the electronic device (Charlton: pager's message is processed and the visual or acoustical sounds of the second pager are made based on information from the other pager).

6. As per claim 4, a method according to claim 1, characterised in that the data communication between the data communication device and the wireless device is made over an LPRF link. (it is well know that pagers transmit data via RF and require only one or a few watts and thus it is low power)

7. As per claim 5, a method according to claim 1, characterised in that that the data communication between the data communication device and the wireless device is made on the basis of instructions given by the wireless device (Charlton: if the pager wants to transmit data, then data communication will proceed).

8. As per claim 8, a communications device for wireless data communication between a wireless device, which has means for a short-range data link, and an electronic device,

Art Unit: 2631

characterised in that the data communication device comprises: a controller connectable to a general purpose interface of an expansion memory location of the electronic device, for controlling the operation of the data communication device, a short-range wireless data communication unit and an antenna (Charlton: inherent for antenna to exist for sending and receiving pages) for data communication; and a memory for storing the communicated data. (remainder discussed above)

9. Claims 8, 9 and 10 are rejected under 35 U.S.C. 102(e) as being anticipated by Erkkila et al. USPN 6219560B1

10. As per claim 8, Erkkila teaches a communications device for wireless data communication between a wireless device (Erkkila: title: inherent for there to exists multiple mobile communication devices), which has means for a short-range data link, and an electronic device, characterised in that the data communication device comprises: a controller connectable to a general purpose interface of an expansion memory location of the electronic device (Erkkila figs. 6, 7: 69), for controlling the operation of the data communication device, a short-range wireless data communication unit and an antenna for data communication (Erkkila fig. 5: antenna from 59); and a memory for storing the communicated data (Erkkila fig. 5: 53).

11. As per claim 9, a data communication device according to claim 8, characterised in that the controller of the data communication device comprises: a serial to parallel converter (Erkkila fig. 6, 7: 68) for converting parallel mode information of the memory into serial mode used by the short-range data communication unit, and correspondingly the serial mode information into the parallel mode; a splitter for connecting a parallel mode write and read connection of the

Art Unit: 2631

memory alternatively to the interface of the expansion memory location of the electronic device or to the serial to parallel converter for a short-range data communication link (Erkkila fig. 5, 6: output of 68 splits via other components into 63, 69, or 60 or other components); and a microcontroller for controlling the serial to parallel converter and the splitter (Erkkila fig. 6, 7 cntrl, cntrl3).

12. As per claim 10, a data communication device according to claim 8, characterised in that the short-range data communication unit is a LPRF unit. (it is well know that pagers transmit data via RF and require only one or a few watts and thus it is low power)

Allowable Subject Matter

13. Claims 6 and 7 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims and overcoming the claim objections.

14. Claims 11 and 12 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and the claim objections and to include all of the limitations of the base claim and any intervening claims.

15. The following is a statement of reasons for the indication of allowable subject matter: The art of record does not suggest the respective claim combinations together and nor would the respective claim combinations be obvious with the underlined portions:

16. As per claim 6, a method according to claim 1, characterised in that the data communication between the data communication device and the wireless device is made

Art Unit: 2631

automatically on the basis of the logic of the data communication device so that it is activated by the storage of data (not in Charlton).

17. As per claim 7, a method according to claim 2, characterised in that the input data is a picture reflected as light through the objective of a camera (not in Charlton).

18. As per claim 11, a data communication device according to claim 10, characterised in that it comprises means for supplying a busy signal to the electronic device when the memory is processed by the radio link, and a busy signal to the LPRF unit when the memory is processed by the electronic device (not in Charlton or Erkkila).

19. As per claim 12, a data communication device according to claim 10, characterised in that it comprises means for giving to the microcontroller an operation enable signal enabling the operation of the data communication device when the memory is processed by the electronic device (Charlton: occurs when two pagers are communicating via a link), and a busy signal when the LPRF unit is occupied for data communication (not in Charlton or Erkkila).

Art Unit: 2631

Conclusion

20. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Maloney USPN 6407665, Parulski et al. EP 0860980A2, Cowe USPN 5671362


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pankaj Kumar whose telephone number is (703) 305-0194. The examiner can normally be reached on Monday through Thursday after 8AM to after 6:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi H. Pham can be reached on (703) 305-4378. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9314 for regular communications and (703) 872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3800.

PK

November 25, 2002


CHI PHAM
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600 11/26/02